

## CLAIMS

1. A system for use in a communication network and comprising:  
at least one first device;  
at least one second device; and  
a communication quality ameliorator including:  
a first interface providing first interaction with said at least one first device; and  
a second interface providing second interaction with said at least one second device, said second interaction including at least BLUETOOTH® communication.
2. A system according to claim 1 and wherein said communication quality ameliorator provides a communication security functionality.
3. A system according to claim 1 and wherein said communication quality ameliorator provides a firewall functionality.
4. A system according to claim 1 and wherein said communication quality ameliorator provides a content inspection functionality.
5. A system according to claim 1 and wherein said communication quality ameliorator provides an authentication functionality.
6. A system according to claim 1 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.
7. A system according to claim 1 and wherein said communication quality ameliorator provides a proxy functionality.
8. A system according to claim 1 and wherein said communication quality ameliorator provides a communication monitoring functionality.

9. A system according to claim 1 and wherein said communication quality ameliorator provides a load balancing functionality.

10. A system according to claim 1 and wherein said communication quality ameliorator provides a caching functionality.

11. A system according to claim 1 and wherein said communication quality ameliorator provides a quality of service functionality.

12. A system according to claim 1 and wherein said communication quality ameliorator provides a communication availability functionality.

13. A system according to claim 1 and wherein said communication quality ameliorator provides a communication accountability functionality.

14. A system according to claim 1 and wherein said communication quality ameliorator provides an accounting functionality.

15. A system according to claim 1 and wherein said communication quality ameliorator provides a billing functionality:

16. A system according to claim 1 and wherein said communications quality ameliorator is portable.

17. A system according to claim 16 and wherein said communication quality ameliorator provides a communication security functionality.

18. A system according to claim 16 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

19. A system according to claim 16 and wherein said communication quality ameliorator provides a communication availability functionality.

20. A system according to claim 16 and wherein said communication quality ameliorator provides a communication accountability functionality.

21. A system according to claim 16 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

24. A system according to claim 1 and wherein said communications quality ameliorator is stationary.

25. A system according to claim 24 and wherein said communication quality ameliorator provides a communication security functionality.

26. A system according to claim 24 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

27. A system according to claim 24 and wherein said communication quality ameliorator provides a communication availability functionality.

28. A system according to claim 24 and wherein said communication quality ameliorator provides a communication accountability functionality.

29. A system according to claim 24 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

30. A system according to claim 1 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

31. A system according to claim 30 and wherein said communication quality ameliorator provides a communication security functionality.

32. A system according to claim 30 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

33. A system according to claim 30 and wherein said communication quality ameliorator provides a communication availability functionality.

34. A system according to claim 30 and wherein said communication quality ameliorator provides a communication accountability functionality.

35. A system according to claim 30 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

36. A system according to claim 30 and wherein said communications quality ameliorator is portable.

37. A system according to claim 36 and wherein said communication quality ameliorator provides a communication security functionality.

38. A system according to claim 36 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

39. A system according to claim 36 and wherein said communication quality ameliorator provides a communication availability functionality.

40. A system according to claim 36 and wherein said communication quality ameliorator provides a communication accountability functionality.

41. A system according to claim 36 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;

a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

44. A system according to claim 30 and wherein said communications quality ameliorator is stationary.

45. A system according to claim 44 and wherein said communication quality ameliorator provides a communication security functionality.

46. A system according to claim 44 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

47. A system according to claim 44 and wherein said communication quality ameliorator provides a communication availability functionality.

48. A system according to claim 44 and wherein said communication quality ameliorator provides a communication accountability functionality.

49. A system according to claim 44 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;

a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

50. A system according to claim 1 and wherein said first interaction includes at least some non-BLUETOOTH® communication.

51. A system according to claim 50 and wherein said communication quality ameliorator provides a communication security functionality.

52. A system according to claim 50 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

53. A system according to claim 50 and wherein said communication quality ameliorator provides a communication availability functionality.

54. A system according to claim 50 and wherein said communication quality ameliorator provides a communication accountability functionality.

55. A system according to claim 50 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;

an authentication functionality; and  
a load balancing functionality.

56. A system according to claim 50 and wherein said communications quality ameliorator is portable.

57. A system according to claim 56 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

58. A system according to claim 56 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

59. A system according to claim 50 and wherein said communications quality ameliorator is stationary.

60. A system according to claim 59 and wherein said communication quality ameliorator provides at least one of the following functionalities:



a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

61. A system according to claim 59 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

62. A system according to claim 50 wherein said second interaction comprises at least principally of BLUETOOTH® communication.

63. A system according to claim 62 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

64. A system according to claim 62 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;

an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

65. A system according to claim 1 and wherein said first interaction comprises at least principally of BLUETOOTH® communication with an access point.

66. A system according to claim 65 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

67. A system according to claim 65 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;

an authentication functionality; and  
a load balancing functionality.

68. A system according to claim 65 and wherein said communications quality ameliorator is portable.

69. A system according to claim 68 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

70. A system according to claim 68 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

71. A system according to claim 65 and wherein said communications quality ameliorator is stationary.

72. A system according to claim 71 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

73. A system according to claim 71 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

74. A system according to claim 65 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

75. A system according to claim 74 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

76. A system according to claim 74 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;

an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

77. A system according to claim 65 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

78. A system according to claim 1 and wherein both said first and second interactions comprise at least principally of BLUETOOTH® communication.

79. A system according to claim 78 and wherein said communication quality ameliorator provides a communication security functionality.

80. A system according to claim 78 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

81. A system according to claim 78 and wherein said communication quality ameliorator provides a communication availability functionality.

82. A system according to claim 78 and wherein said communication quality ameliorator provides a communication accountability functionality.

83. A system according to claim 78 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

84. A system according to claim 78 and wherein said communications quality ameliorator is portable.

85. A system according to claim 84 and wherein said communication quality ameliorator provides a communication security functionality.

86. A system according to claim 84 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

87. A system according to claim 84 and wherein said communication quality ameliorator provides a communication availability functionality.

88. A system according to claim 84 and wherein said communication quality ameliorator provides a communication accountability functionality.

89. A system according to claim 84 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;

a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

92. A system according to claim 78 and wherein said communications quality ameliorator is stationary.

93. A system according to claim 92 and wherein said communication quality ameliorator provides a communication security functionality.

94. A system according to claim 92 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

95. A system according to claim 92 and wherein said communication quality ameliorator provides a communication availability functionality.

96. A system according to claim 92 and wherein said communication quality ameliorator provides a communication accountability functionality.

97. A system according to claim 92 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;

a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

98. A system according to claim 1 and wherein both said at least one first device comprises a server.

99. A system according to claim 98 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

100. A system according to claim 98 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

101. A system according to claim 98 and wherein said communications quality ameliorator is portable.



102. A system according to claim 101 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

103. A system according to claim 101 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

104. A system according to claim 98 and wherein said communications quality ameliorator is stationary.

105. A system according to claim 104 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

106. A system according to claim 104 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

107. A system according to claim 98 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

108. A system according to claim 107 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

109. A system according to claim 107 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;

a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

110. A system according to claim 98 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

111. A system according to claim 98 and wherein said at least one first device comprises a plurality of first devices.

112. A system according to claim 1 and wherein said at least one first device comprises at least one of:

a printer;  
a web site;  
a computer;  
a computer screen;  
a cordless telephone base unit;  
an authenticator; and  
a domestic appliance.

113. A system according to claim 1 and wherein both said at least one second device comprises a client.

114. A system according to claim 113 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

115. A system according to claim 113 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

116. A system according to claim 113 and wherein said communications quality ameliorator is portable.

117. A system according to claim 116 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

118. A system according to claim 116 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;

a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

119. A system according to claim 113 and wherein said communications quality ameliorator is stationary.

120. A system according to claim 119 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

121. A system according to claim 119 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

122. A system according to claim 113 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

123. A system according to claim 122 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

124. A system according to claim 122 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

125. A system according to claim 113 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

126. A system according to claim 113 and wherein said at least one second device comprises a plurality of second devices.

127. A system according to claim 1 and wherein said at least one second device comprises at least one of:

- an electronic wallet;
- a telephone;
- a cordless telephone handset
- a personal digital assistant;
- a portable computer;
- a keyboard;
- a mouse; and
- a remote controller.

128. A system for use in a communication network and comprising:

- at least one first device;
- at least one second device; and
- a communications quality ameliorator including:
  - a first interface providing interaction with said at least one first device;

and

a second interface providing interaction with said at least one second device, said second device being required to conduct certain communications only via said communications quality ameliorator, said interaction including at least BLUETOOTH® communication.

129. A system according to claim 128 and wherein said communication quality ameliorator provides a communication security functionality.

130. A system according to claim 128 and wherein said communication quality ameliorator provides a firewall functionality.

131. A system according to claim 128 and wherein said communication quality ameliorator provides a content inspection functionality.

132. A system according to claim 128 and wherein said communication quality ameliorator provides an authentication functionality.

133. A system according to claim 128 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

134. A system according to claim 128 and wherein said communication quality ameliorator provides a proxy functionality.

135. A system according to claim 128 and wherein said communication quality ameliorator provides a communication monitoring functionality.

136. A system according to claim 128 and wherein said communication quality ameliorator provides a load balancing functionality.

137. A system according to claim 128 and wherein said communication quality ameliorator provides a caching functionality.

138. A system according to claim 128 and wherein said communication quality ameliorator provides a quality of service functionality.

139. A system according to claim 128 and wherein said communication quality ameliorator provides a communication availability functionality.

140. A system according to claim 128 and wherein said communication quality ameliorator provides a communication accountability functionality.

141. A system according to claim 128 and wherein said communication quality ameliorator provides an accounting functionality.

142. A system according to claim 128 and wherein said communication quality ameliorator provides a billing functionality.



143. A system according to claim 128 and wherein said communications quality ameliorator is portable.

144. A system according to claim 143 and wherein said communication quality ameliorator provides a communication security functionality.

145. A system according to claim 143 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

146. A system according to claim 143 and wherein said communication quality ameliorator provides a communication availability functionality.

147. A system according to claim 143 and wherein said communication quality ameliorator provides a communication accountability functionality.

148. A system according to claim 143 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;

an accounting functionality;

a billing functionality;

a firewall functionality;

a content inspection functionality;

a proxy functionality;

a caching functionality;

a quality of service functionality;

an encryption functionality;

an authentication functionality; and

a load balancing functionality.

151. A system according to claim 128 and wherein said communications quality ameliorator is stationary.

152. A system according to claim 151 and wherein said communication quality ameliorator provides a communication security functionality.

153. A system according to claim 151 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

154. A system according to claim 151 and wherein said communication quality ameliorator provides a communication availability functionality.

155. A system according to claim 151 and wherein said communication quality ameliorator provides a communication accountability functionality.

156. A system according to claim 151 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;

- an accounting functionality;

- a billing functionality;

- a firewall functionality;

- a content inspection functionality;

- a proxy functionality;

- a caching functionality;

- a quality of service functionality;

- an encryption functionality;

- an authentication functionality; and

- a load balancing functionality.

157. A system according to claim 128 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

158. A system according to claim 157 and wherein said communication quality ameliorator provides a communication security functionality.

159. A system according to claim 157 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

160. A system according to claim 157 and wherein said communication quality ameliorator provides a communication availability functionality.

161. A system according to claim 157 and wherein said communication quality ameliorator provides a communication accountability functionality.

162. A system according to claim 157 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;

an accounting functionality;

a billing functionality;

a firewall functionality;

a content inspection functionality;

a proxy functionality;

a caching functionality;

a quality of service functionality;

an encryption functionality;

an authentication functionality; and

a load balancing functionality.

163. A system according to claim 157 and wherein said communications quality ameliorator is portable.

164. A system according to claim 163 and wherein said communication quality ameliorator provides a communication security functionality.

165. A system according to claim 163 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

166. A system according to claim 163 and wherein said communication quality ameliorator provides a communication availability functionality.

167. A system according to claim 163 and wherein said communication quality ameliorator provides a communication accountability functionality.

168. A system according to claim 163 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;

an accounting functionality;

a billing functionality;

a firewall functionality;

a content inspection functionality;

a proxy functionality;

a caching functionality;

a quality of service functionality;

an encryption functionality;

an authentication functionality; and

a load balancing functionality.

171. A system according to claim 157 and wherein said communications quality ameliorator is stationary.

172. A system according to claim 171 and wherein said communication quality ameliorator provides a communication security functionality.

173. A system according to claim 171 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

174. A system according to claim 171 and wherein said communication quality ameliorator provides a communication availability functionality.

175. A system according to claim 171 and wherein said communication quality ameliorator provides a communication accountability functionality.

176. A system according to claim 171 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

177. A system according to claim 128 and wherein said first interaction includes at least some non-BLUEETOOTH® communication.

178. A system according to claim 177 and wherein said communication quality ameliorator provides a communication security functionality.

179. A system according to claim 177 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

180. A system according to claim 177 and wherein said communication quality ameliorator provides a communication availability functionality.

181. A system according to claim 177 and wherein said communication quality ameliorator provides a communication accountability functionality.

182. A system according to claim 177 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

183. A system according to claim 177 and wherein said communications quality ameliorator is portable.

184. A system according to claim 183 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

185. A system according to claim 183 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;

a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

186. A system according to claim 177 and wherein said communications quality ameliorator is stationary.

187. A system according to claim 186 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

188. A system according to claim 186 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

189. A system according to claim 177 wherein said second interaction comprises at least principally of BLUETOOTH® communication.

190. A system according to claim 189 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

191. A system according to claim 189 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

192. A system according to claim 128 and wherein said first interaction comprises at least principally of BLUETOOTH® communication with an access point.

193. A system according to claim 192 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and



a communication accountability functionality.

194. A system according to claim 192 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

195. A system according to claim 192 and wherein said communications quality ameliorator is portable.

196. A system according to claim 195 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

197. A system according to claim 195 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;

a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

198. A system according to claim 192 and wherein said communications quality ameliorator is stationary.

199. A system according to claim 198 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

200. A system according to claim 198 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

201. A system according to claim 192 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

202. A system according to claim 201 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

203. A system according to claim 201 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

204. A system according to claim 192 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

205. A system according to claim 128 and wherein both said first and second interactions comprise at least principally of BLUETOOTH® communication.

206. A system according to claim 205 and wherein said communication quality ameliorator provides a communication security functionality.

207. A system according to claim 205 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

208. A system according to claim 205 and wherein said communication quality ameliorator provides a communication availability functionality.

209. A system according to claim 205 and wherein said communication quality ameliorator provides a communication accountability functionality.

210. A system according to claim 205 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

211. A system according to claim 205 and wherein said communications quality ameliorator is portable.

212. A system according to claim 211 and wherein said communication quality ameliorator provides a communication security functionality.

213. A system according to claim 211 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

214. A system according to claim 211 and wherein said communication quality ameliorator provides a communication availability functionality.

215. A system according to claim 211 and wherein said communication quality ameliorator provides a communication accountability functionality.

216. A system according to claim 211 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;

an accounting functionality;

a billing functionality;

a firewall functionality;

a content inspection functionality;

a proxy functionality;

a caching functionality;

a quality of service functionality;

an encryption functionality;

an authentication functionality; and

a load balancing functionality.

219. A system according to claim 205 and wherein said communications quality ameliorator is stationary.

220. A system according to claim 219 and wherein said communication quality ameliorator provides a communication security functionality.

221. A system according to claim 219 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

222. A system according to claim 219 and wherein said communication quality ameliorator provides a communication availability functionality.

223. A system according to claim 219 and wherein said communication quality ameliorator provides a communication accountability functionality.

224. A system according to claim 219 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

225. A system according to claim 128 and wherein both said at least one first device comprises a server.

226. A system according to claim 225 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

227. A system according to claim 225 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

228. A system according to claim 225 and wherein said communications quality ameliorator is portable.

229. A system according to claim 228 and wherein said communication quality ameliorator provides at least one of the following functionalities:  
a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

230. A system according to claim 228 and wherein said communication quality ameliorator includes at least one of the following functionalities:  
a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;

an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

231. A system according to claim 225 and wherein said communications quality ameliorator is stationary.

232. A system according to claim 231 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

233. A system according to claim 231 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

234. A system according to claim 225 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.



235. A system according to claim 234 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

236. A system according to claim 234 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

237. A system according to claim 225 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

238. A system according to claim 225 and wherein said at least one first device comprises a plurality of first devices.

239. A system according to claim 128 and wherein said at least one first device comprises at least one of:

- a printer;
- a web site;

a computer;  
a computer screen;  
a cordless telephone base unit;  
an authenticator; and  
a domestic appliance.

240. A system according to claim 128 and wherein both said at least one second device comprises a client.

241. A system according to claim 240 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

242. A system according to claim 240 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

243. A system according to claim 240 and wherein said communications quality ameliorator is portable.

244. A system according to claim 243 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

245. A system according to claim 243 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

246. A system according to claim 240 and wherein said communications quality ameliorator is stationary.

247. A system according to claim 246 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

248. A system according to claim 246 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

249. A system according to claim 240 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

250. A system according to claim 249 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

251. A system according to claim 249 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;

a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

252. A system according to claim 240 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

253. A system according to claim 240 and wherein said at least one second device comprises a plurality of second devices.

254. A system according to claim 128 and wherein said at least one second device comprises at least one of:

an electronic wallet;  
a telephone;  
a cordless telephone handset  
a personal digital assistant;  
a portable computer;  
a keyboard;  
a mouse; and  
a remote controller.

255. A communications quality ameliorator including:  
a first interface providing interaction with at least one first device; and  
a second interface providing interaction with at least one second device,  
said interaction including at least BLUETOOTH® communication.

256. A communications quality ameliorator according to claim 255 and wherein said communication quality ameliorator provides a communication security functionality.

257. A communications quality ameliorator according to claim 255 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

258. A communications quality ameliorator according to claim 255 and wherein said communication quality ameliorator provides a communication availability functionality.

259. A communications quality ameliorator according to claim 255 and wherein said communication quality ameliorator provides a communication accountability functionality.

260. A communications quality ameliorator according to claim 255 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

261. A communications quality ameliorator according to claim 255 and wherein said communications quality ameliorator is portable.

262. A communications quality ameliorator according to claim 261 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

263. A communications quality ameliorator according to claim 261 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

264. A communications quality ameliorator according to claim 255 and wherein said communications quality ameliorator is stationary.

265. A communications quality ameliorator according to claim 264 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;

a communication availability functionality; and  
a communication accountability functionality.

266. A communications quality ameliorator according to claim 264 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

267. A communications quality ameliorator according to claim 255 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

268. A communications quality ameliorator according to claim 267 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.



269. A communications quality ameliorator according to claim 267 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

270. A communications quality ameliorator according to claim 267 and wherein said communications quality ameliorator is portable.

271. A communications quality ameliorator according to claim 270 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

272. A communications quality ameliorator according to claim 270 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;

a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

273. A communications quality ameliorator according to claim 267 and wherein said communications quality ameliorator is stationary.

274. A communications quality ameliorator according to claim 273 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

275. A communications quality ameliorator according to claim 273 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;

an authentication functionality; and  
a load balancing functionality.

276. A communications quality ameliorator according to claim 255 and wherein said first interaction includes at least some non-BLUETOOTH® communication.

277. A communications quality ameliorator according to claim 276 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

278. A communications quality ameliorator according to claim 276 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

279. A communications quality ameliorator according to claim 276 and wherein said communications quality ameliorator is portable.

280. A communications quality ameliorator according to claim 279 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

281. A communications quality ameliorator according to claim 276 and wherein said communications quality ameliorator is stationary.

282. A communications quality ameliorator according to claim 276 wherein said second interaction comprises at least principally of BLUETOOTH® communication.

283. A communications quality ameliorator according to claim 255 and wherein said first interaction comprises at least principally of BLUETOOTH® communication with an access point.

284. A communications quality ameliorator according to claim 283 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

285. A communications quality ameliorator according to claim 283 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;

an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

286. A communications quality ameliorator according to claim 283 and wherein said communications quality ameliorator is portable.

287. A communications quality ameliorator according to claim 286 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

288. A communications quality ameliorator according to claim 283 and wherein said communications quality ameliorator is stationary.

289. A communications quality ameliorator according to claim 283 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

290. A communications quality ameliorator according to claim 289 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

291. A communications quality ameliorator according to claim 283 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

292. A communications quality ameliorator according to claim 255 and wherein both said first and second interactions comprise at least principally of BLUETOOTH® communication.

293. A communications quality ameliorator according to claim 292 and wherein said communication quality ameliorator provides a communication security functionality.

294. A communications quality ameliorator according to claim 292 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

295. A communications quality ameliorator according to claim 292 and wherein said communication quality ameliorator provides a communication availability functionality.

296. A communications quality ameliorator according to claim 292 and wherein said communication quality ameliorator provides a communication accountability functionality.

297. A communications quality ameliorator according to claim 292 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

298. A communications quality ameliorator according to claim 292 and wherein said communications quality ameliorator is portable.

299. A communications quality ameliorator according to claim 298 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

300. A communications quality ameliorator according to claim 292 and wherein said communications quality ameliorator is stationary.

301. A communications quality ameliorator according to claim 300 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and

a communication accountability functionality.

302. A communications quality ameliorator comprising:  
a first interface providing interaction with at least one first device; and  
a second interface providing interaction with at least one second device,  
said second device being required to conduct certain communications only via said  
communications quality ameliorator, said interaction including at least BLUETOOTH®  
communication.

303. A communications quality ameliorator according to claim 302 and  
wherein said communication quality ameliorator provides a communication security  
functionality.

304. A communications quality ameliorator according to claim 302 and  
wherein said communication quality ameliorator provides a communication  
performance amelioration functionality.

305. A communications quality ameliorator according to claim 302 and  
wherein said communication quality ameliorator provides a communication availability  
functionality.

306. A communications quality ameliorator according to claim 302 and  
wherein said communication quality ameliorator provides a communication  
accountability functionality.

307. A communications quality ameliorator according to claim 302 and  
wherein said communication quality ameliorator includes at least one of the following  
functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;



a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

308. A communications quality ameliorator according to claim 302 and wherein said communications quality ameliorator is portable.

309. A communications quality ameliorator according to claim 308 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

310. A communications quality ameliorator according to claim 308 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and

a load balancing functionality.

311. A communications quality ameliorator according to claim 302 and wherein said communications quality ameliorator is stationary.

312. A communications quality ameliorator according to claim 311 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

313. A communications quality ameliorator according to claim 311 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

314. A communications quality ameliorator according to claim 302 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

315. A communications quality ameliorator according to claim 314 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

316. A communications quality ameliorator according to claim 314 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

317. A communications quality ameliorator according to claim 314 and wherein said communications quality ameliorator is portable.

318. A communications quality ameliorator according to claim 317 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and

a communication accountability functionality.

319. A communications quality ameliorator according to claim 317 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

320. A communications quality ameliorator according to claim 314 and wherein said communications quality ameliorator is stationary.

321. A communications quality ameliorator according to claim 320 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

322. A communications quality ameliorator according to claim 320 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;

- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

323. A communications quality ameliorator according to claim 302 and wherein said first interaction includes at least some non-BLUETOOTH® communication.

324. A communications quality ameliorator according to claim 323 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

325. A communications quality ameliorator according to claim 323 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;

a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

326. A communications quality ameliorator according to claim 323 and wherein said communications quality ameliorator is portable.

327. A communications quality ameliorator according to claim 326 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

328. A communications quality ameliorator according to claim 323 and wherein said communications quality ameliorator is stationary.

329. A communications quality ameliorator according to claim 323 wherein said second interaction comprises at least principally of BLUETOOTH® communication.

330. A communications quality ameliorator according to claim 302 and wherein said first interaction comprises at least principally of BLUETOOTH® communication with an access point.

331. A communications quality ameliorator according to claim 330 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;

a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

332. A communications quality ameliorator according to claim 330 and wherein said communication quality ameliorator includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

333. A communications quality ameliorator according to claim 330 and wherein said communications quality ameliorator is portable.

334. A communications quality ameliorator according to claim 333 and wherein said communication quality ameliorator provides at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

335. A communications quality ameliorator according to claim 330 and wherein said communications quality ameliorator is stationary.

336. A communications quality ameliorator according to claim 330 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

337. A communications quality ameliorator according to claim 336 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

338. A communications quality ameliorator according to claim 330 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

339. A communications quality ameliorator according to claim 302 and wherein both said first and second interactions comprise at least principally of BLUETOOTH® communication.

340. A communications quality ameliorator according to claim 339 and wherein said communication quality ameliorator provides a communication security functionality.

341. A communications quality ameliorator according to claim 339 and wherein said communication quality ameliorator provides a communication performance amelioration functionality.

342. A communications quality ameliorator according to claim 339 and wherein said communication quality ameliorator provides a communication availability functionality.



343. A communications quality ameliorator according to claim 339 and wherein said communication quality ameliorator provides a communication accountability functionality.

344. A communications quality ameliorator according to claim 339 and wherein said communication quality ameliorator includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

345. A communications quality ameliorator according to claim 339 and wherein said communications quality ameliorator is portable.

346. A communications quality ameliorator according to claim 345 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

347. A communications quality ameliorator according to claim 339 and wherein said communications quality ameliorator is stationary.

348. A communications quality ameliorator according to claim 347 and wherein said communication quality ameliorator provides at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

349. A method for use in a communication network comprising, said method comprising:

- at least one amelioration functionality;
- a first interaction between said at least one amelioration functionality and at least one first device; and
- a second interaction between said at least one amelioration functionality and at least one second device, said second interaction including at least BLUETOOTH® communication.

350. A method according to claim 349 and wherein said amelioration functionality includes a communication security functionality.

351. A method according to claim 349 and wherein said amelioration functionality includes a communication performance amelioration functionality.

352. A method according to claim 349 and wherein said amelioration functionality includes a communication availability functionality.

353. A method according to claim 349 and wherein said amelioration functionality includes a communication accountability functionality.

354. A method according to claim 349 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

355. A method according to claim 349 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

356. A method according to claim 355 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

357. A method according to claim 355 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;

a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

358. A method according to claim 349 and wherein said first interaction includes at least some non-BLUETOOTH® communication.

359. A method according to claim 358 and wherein said amelioration functionality includes at least one of the following functionalities:

a communication security functionality;  
a performance amelioration functionality;  
a communication availability functionality; and  
a communication accountability functionality.

360. A method according to claim 358 and wherein said amelioration functionality includes at least one of the following functionalities:

a communication monitoring functionality;  
an accounting functionality;  
a billing functionality;  
a firewall functionality;  
a content inspection functionality;  
a proxy functionality;  
a caching functionality;  
a quality of service functionality;  
an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.

361. A method according to claim 358 wherein said second interaction comprises at least principally of BLUETOOTH® communication.

362. A method according to claim 349 and wherein said first interaction comprises at least principally of BLUETOOTH® communication with an access point.

363. A method according to claim 362 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;
- a communication availability functionality; and
- a communication accountability functionality.

364. A method according to claim 362 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;
- an encryption functionality;
- an authentication functionality; and
- a load balancing functionality.

365. A method according to claim 362 and wherein said second interaction comprises at least principally of BLUETOOTH® communication.

366. A method according to claim 365 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication security functionality;
- a performance amelioration functionality;

a communication availability functionality; and  
a communication accountability functionality.

367. A method according to claim 362 and wherein said first interaction includes at least some non-BLUETOOTH® communication between said access point and said at least one first device.

368. A method according to claim 349 and wherein both said first and second interactions comprise at least principally of BLUETOOTH® communication.

369. A method according to claim 368 and wherein said amelioration functionality includes a communication security functionality.

370. A method according to claim 368 and wherein said amelioration functionality includes a communication performance amelioration functionality.

371. A method according to claim 368 and wherein said amelioration functionality includes a communication availability functionality.

372. A method according to claim 368 and wherein said amelioration functionality includes a communication accountability functionality.

373. A method according to claim 368 and wherein said amelioration functionality includes at least one of the following functionalities:

- a communication monitoring functionality;
- an accounting functionality;
- a billing functionality;
- a firewall functionality;
- a content inspection functionality;
- a proxy functionality;
- a caching functionality;
- a quality of service functionality;

an encryption functionality;  
an authentication functionality; and  
a load balancing functionality.